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PROJECT OVERVIEW REPORT

1. UTC Identifying Number
   69A3551847102

2. Center Identifying Number
   CAIT-UTC-REG5

3. Project Title
   Implementation and Development of UAS Practical Training for Inspection and Monitoring Activities

4. Principal Investigator & Contact Information
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5. Rutgers/CAIT Project Manager
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7. Project Description
   This proposal aims to design and develop training curricula including the development of assessment instruments for deriving both formative and summative learning outcomes. This curricula will evaluate the practical flight abilities of prospective UAS pilots. The team will also provide research into powered tether systems for long duration UAS flights. The team will evaluate UAS tether for use cases such as traffic monitoring.

8. Implementation of Research Outcomes (or why not implemented)
   The intended outcome of the project is the development of a UAS inspection protocol, leading to the development of training curricula for multi-modal transportation infrastructure assessment via UAS-based remote sensing. This can significantly impact the quality of data and lower the risk portfolio for missions. The project will evaluate UAS operations and make recommendations on procedures for inspection to assist decision making by regional agencies.

9. Impacts/Benefits of Implementation (actual, not anticipated)
   To Be Determined

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10. Dates and Budget
    Start date: 1/1/2019
    End date: 12/31/20
    UTC (CAIT) Dollars: $170,472
    Cost Sharing: $39,255
    Total Dollars: $209,727

11. Keywords
    Unmanned Aircraft Systems; UAS; Bridge; Traffic Monitoring; Training

12. Web Links (Reports and Project Website)
    https://cait.rutgers.edu/research/implementation-and-development-of-uas-practical-training-for-inspection-and-monitoring-activities/